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WGU D426 Data Management Foundations Exam (New 2023/ 2023 Update) | Graded A | Questions and Verified Answers|100% Correct

QUESTION

Group of nodes connected by a LAN, managed by separate operating system instances. Similar to a parallel computer.

Answer:
Cluster

QUESTION

Runs on a parallel computer or cluster

Answer:
Parallel Database

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QUESTION

Runs on multiple computers connected by a WAN

Answer:
Distributed Database

QUESTION

Updates data on multiple nodes of a distributed database. Two-phase com- mit (nodes receive notice of update, store update in log, send confirmation, then receive commit). Either all nodes or no nodes must be successfully updated.

Answer:
Distributed Transactions

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QUESTION

_Updates data on a single node of a distributed database. Databases that use this are called "eventually consistent".

Answer:
Local Transaction

QUESTION

_States that a distributed database cannot be Consistent, Available, and Petition-tolerant simutaneously. Availability refers to individual nodes. Con- sistent database - confirms to all rules at all times. Network partition - forms when a network error prevents nodes from communicating. Petition-tolerant

- database that continues to function when a network partition occurs.

Answer:
CAP Theorem

QUESTION

_Maintains two or more replicas on separate storage devices. Advantages: High availability, fast concurrent reads, local reads. Disadvantages: Slow or inconsistent updates.

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Answer:
Replicated database

QUESTION

_Entire catalog resides on a single node

Answer:
Central Catalog

QUESTION

_Copy of catalog resides on each node

Answer:

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Replicated Catalog

QUESTION

_Volatile- Used to conduct daily business -Changes in real time -Detailed Designed for specific business function -Concerned primarily with current data

Answer:
Operational Data

QUESTION

_AKA: Reporting Data or Decision Support Data -Enterprise-wide- Used to understand, manage, and plan the business- Summary Updated at fixed intervals and summarized by time period -Combines data from many business functions -Usually contains current and historic data

Answer:
Analytic Data

QUESTION

_Data warehouse designed for specific business area

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Answer:
Data Mart

QUESTION

_Analytic database of raw, unprocessed data copied from multiple data sources.

Answer:
Data Lake

QUESTION

_Optimized for analytics

Answer:

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Data Warehouse

QUESTION

Five-step process – ETL: Extract-Transform Load 1) Extract data 2) Cleanse data 3) Integrate data 4) Restructure data 5) Load data - Open-source ETL tools: -PowerCenter -SQL Server Integration Services -Oracle Data Integrator-

Answer:

Data Warehouse Refresh

QUESTION

AKA: Star Schema - Consists of fact and dimension tables. Fact Table - Contains numeric data used to measure business performance.. Primary key is the composite for all foreign keys referencing dimension tables. Dimension Table - Contains textual data that describes the fact data.

Answer:

Dimensional Design

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QUESTION

Sequence of columns in which each column has a one-many relationship to the next column.

Answer:

Dimension Hierarchy

QUESTION

A database that stores data in main memory, instead of or in addition to storage media. Ex: SQL Server In-Memory OLTP - Oracle Database In-Memory
- MySQL

Answer:

In-Memory Databases

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